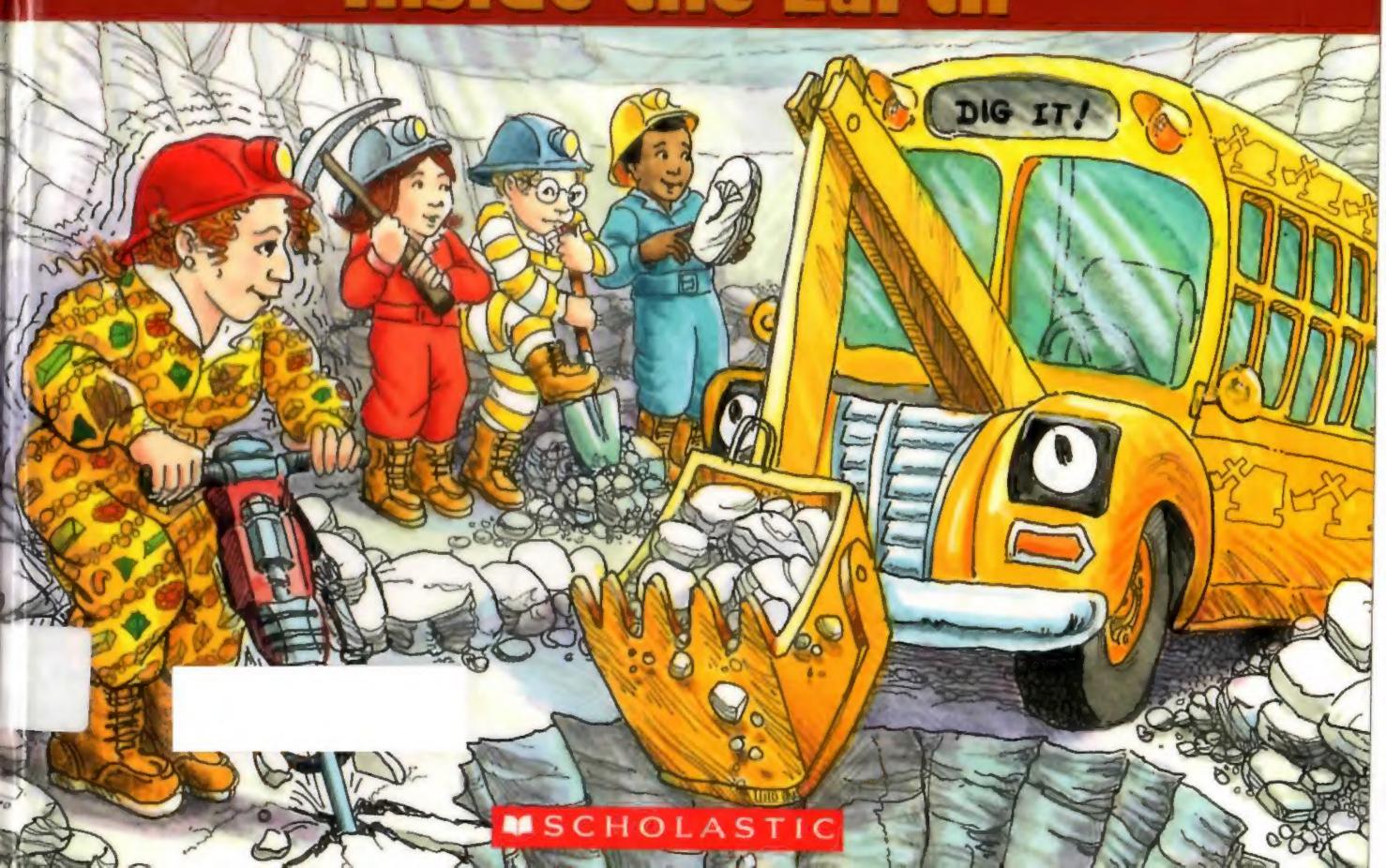
JOANNA COLE & BRUCE DEGEN

The Magic School Bus Inside the Earth



The Side the Earth



15WS,





By Joanna Cole Illustrated by Bruce Degen



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But the next day, almost everyone had some excuse.



o come From? by Wanda

Most of the solid

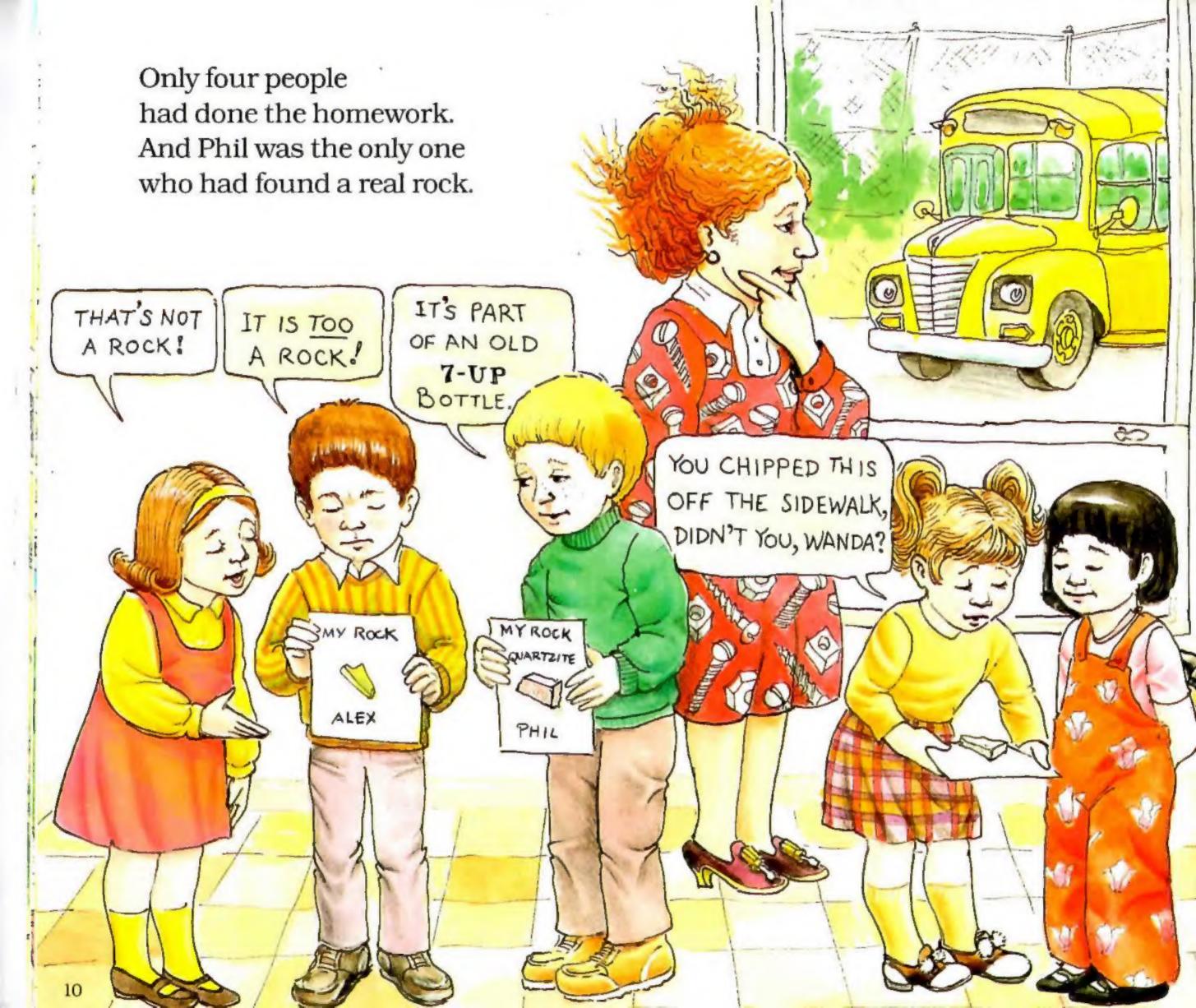
part of the earth is

made of great masses

o of rock.

The small rocks that we collect are just pieces that broke off from these huge masses.





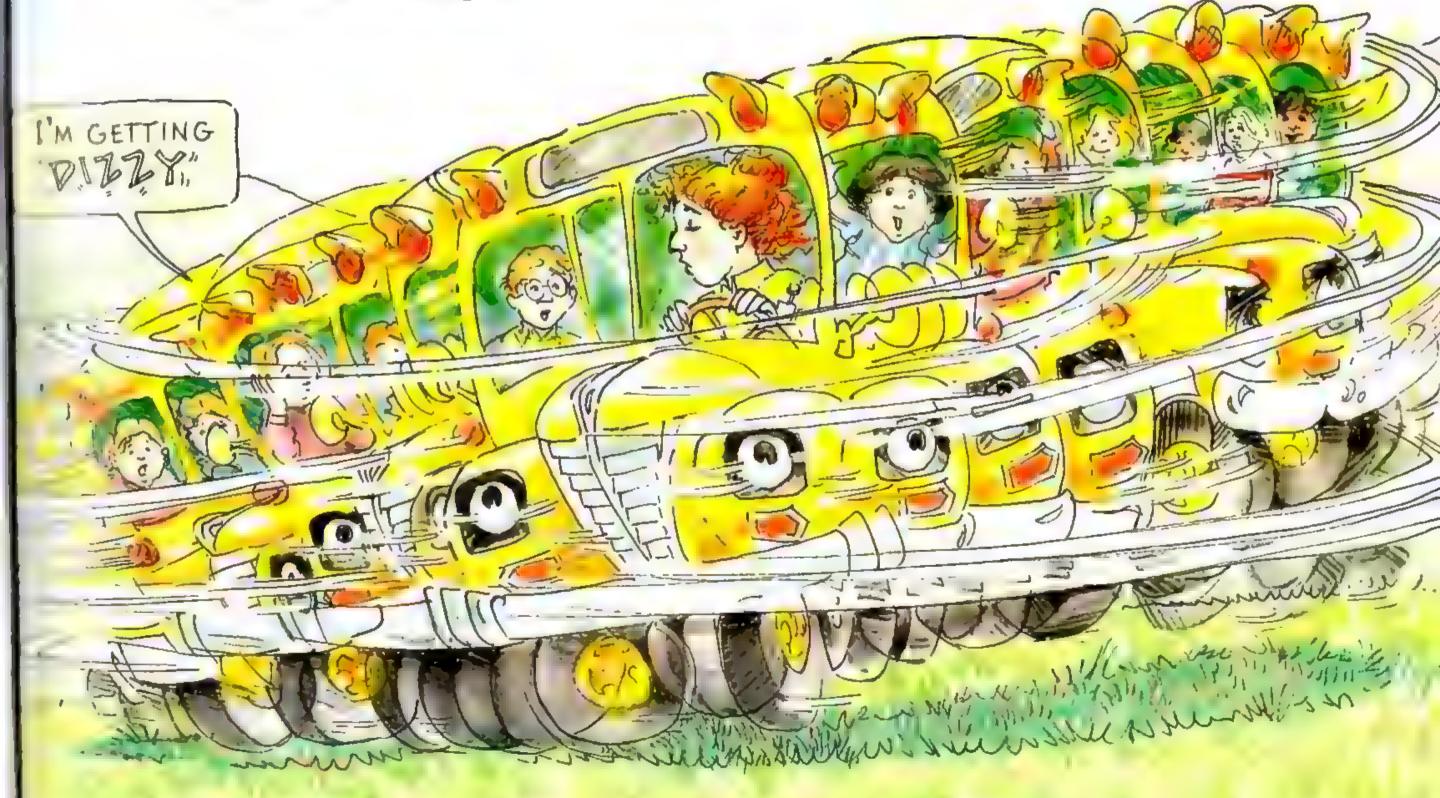
"I guess we'll have to WHAT ARE ROCKS MADE OF? go on a field trip Rocks are made of and collect rocks," said Ms. Frizzle. minerals. Sometimes you see tiny specks of o different colors in a ARNOLD, THAT LOOKS IT COULD BE LIKE STYROFOAM rock. Sometimes you A STALE CUPCAKE. TO ME. See shiny specks. YEAH, COVERED YOU ACTUALLY TOUCHED These different specks WITH DIRT. THIS, ARNOLD ? are the different minerals that make up the rock; MY ROCK

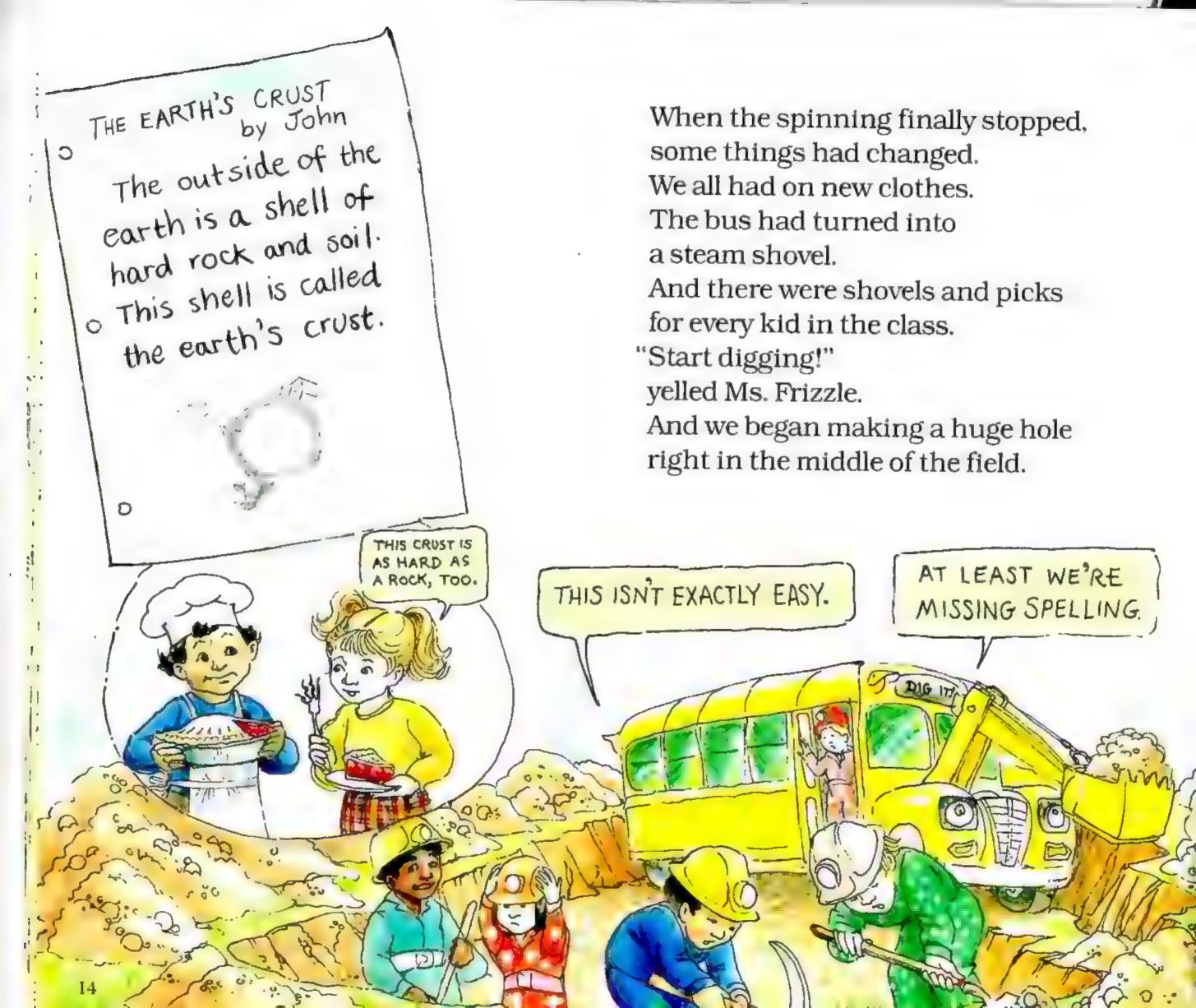


When we came to the field, all the kids wanted to get out of the bus. But suddenly, the bus began to spin like a top. That sort of thing doesn't happen on most class trips.

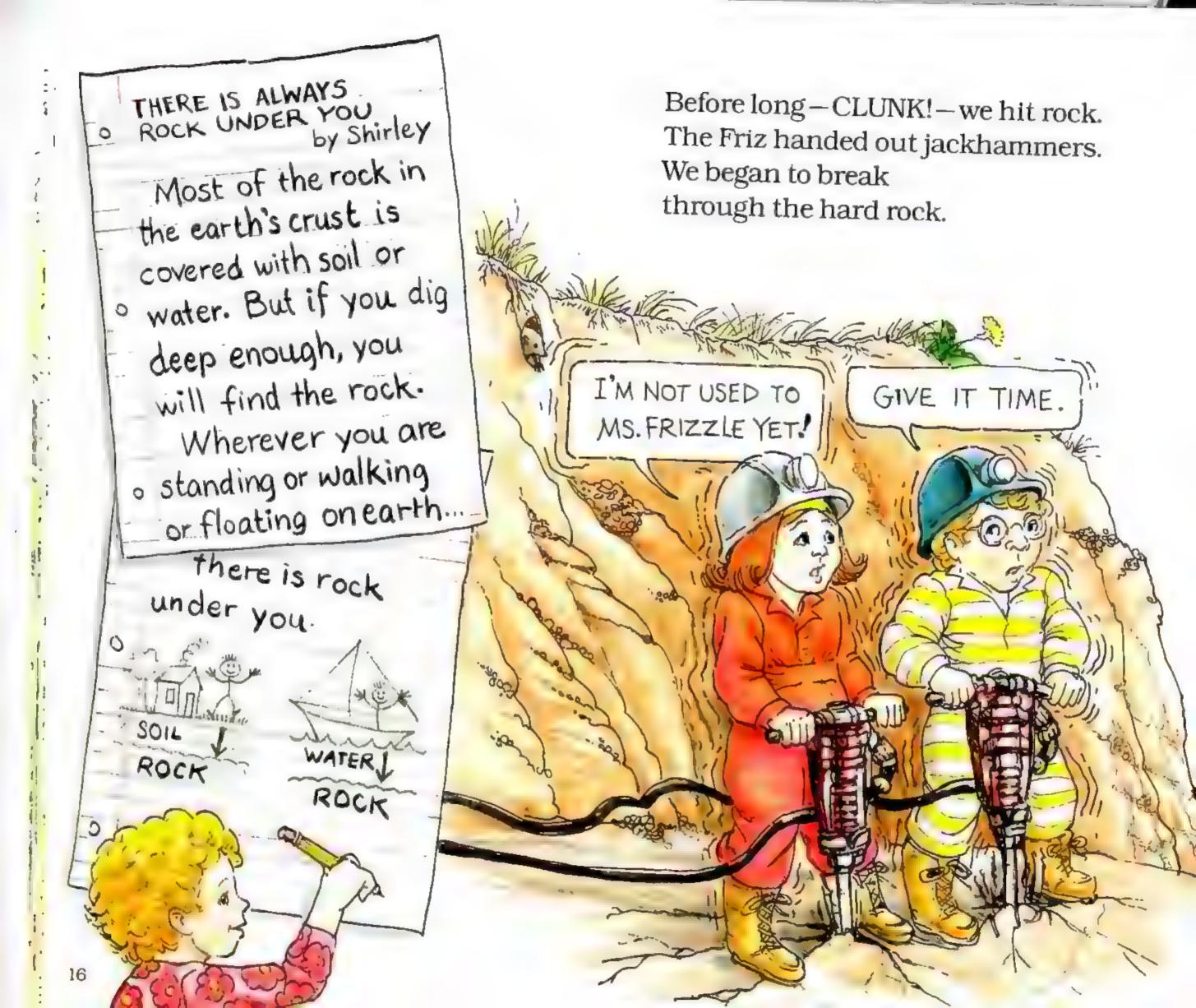
SEAT BELTS, CHILDREN.

> MS. FRIZZLE, WHEN CAN WE COLLECT ROCKS?











HOW ROCK LAYERS

WERE FORMED Molly

Millions of years ago, wind blew dust and sand into lakes and oceans.

The dust and sand settled to the bottom in layers called sediment.

Seashells formed layers of sediment, too.

Over time, the layers hardened into the sedimentary rock we see today.

AN EARTH SCIENCE WORD
by Dorothy Ann
Sedimentary comes
from a word that
means "to settle."

We chipped off pieces of the rocks for our class rock collection.

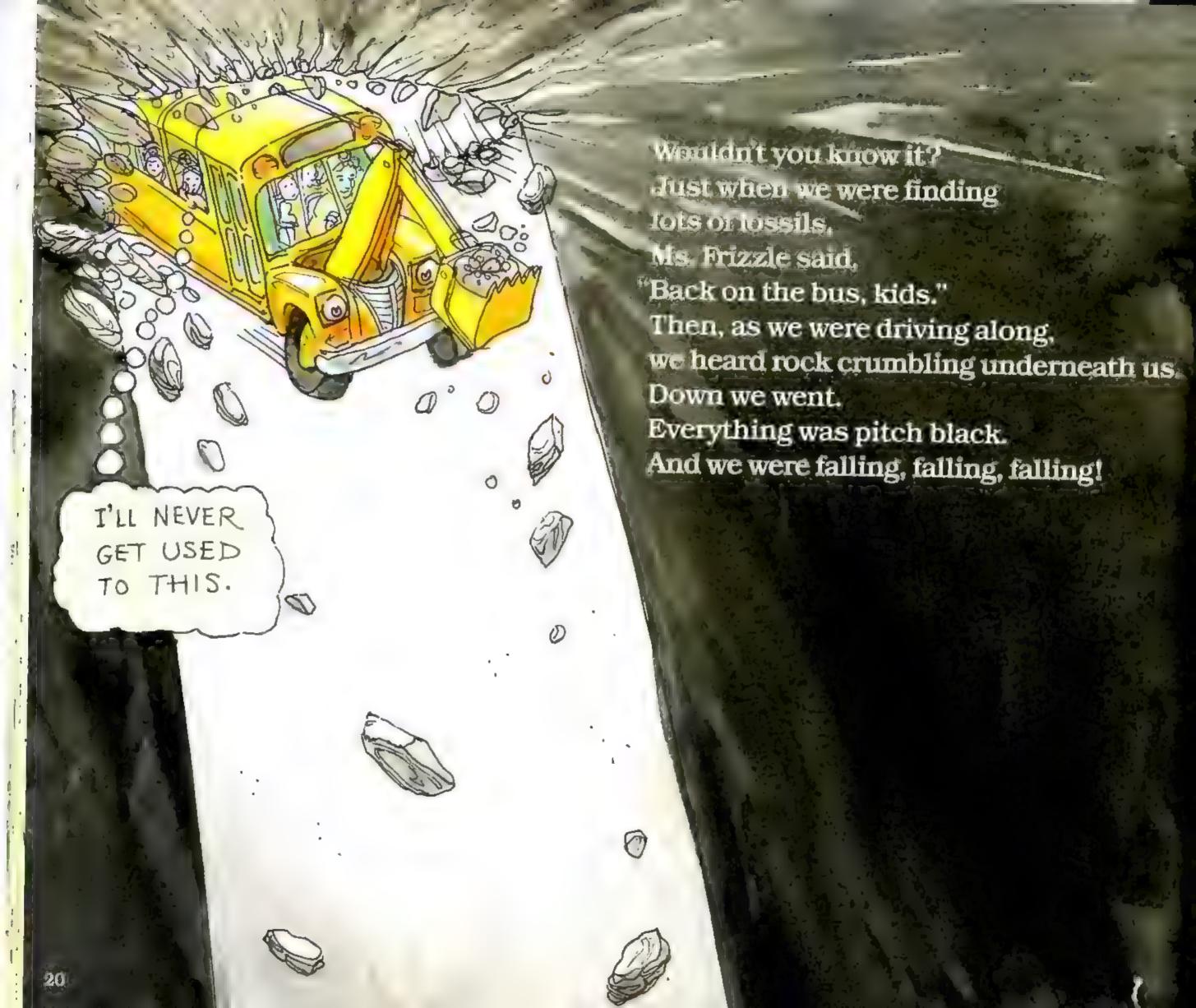
"These rocks are called sedimentary rocks, class," said Ms. Frizzle.

"There are often fossils in sedimentary rocks."

SANDSTONE IS MADE OF GRAINS OF SAND ALL PRESSED TOGETHER. SHALE IS MADE OF MUD AND CLAY ALL PRESSED TOGETHER.











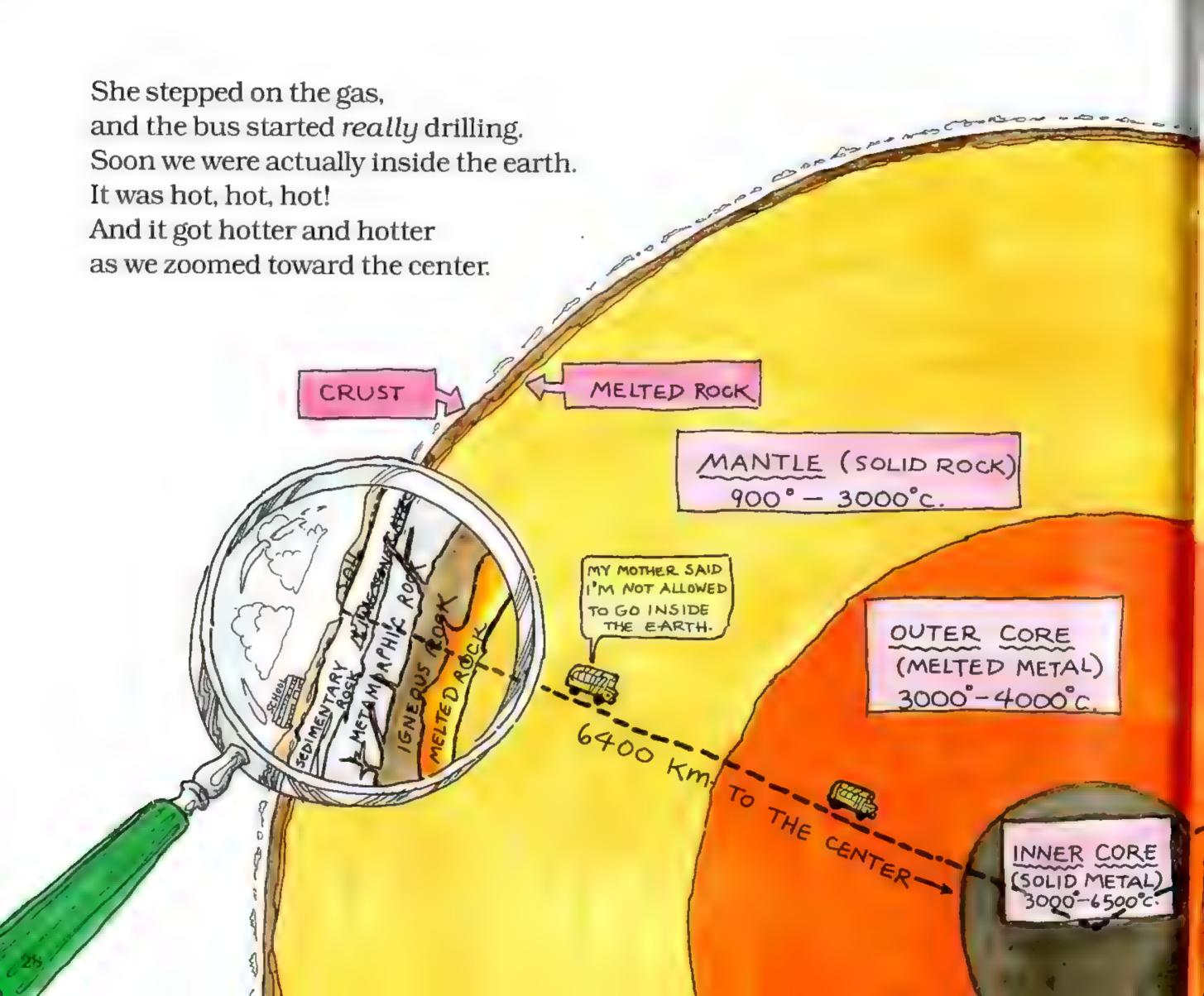


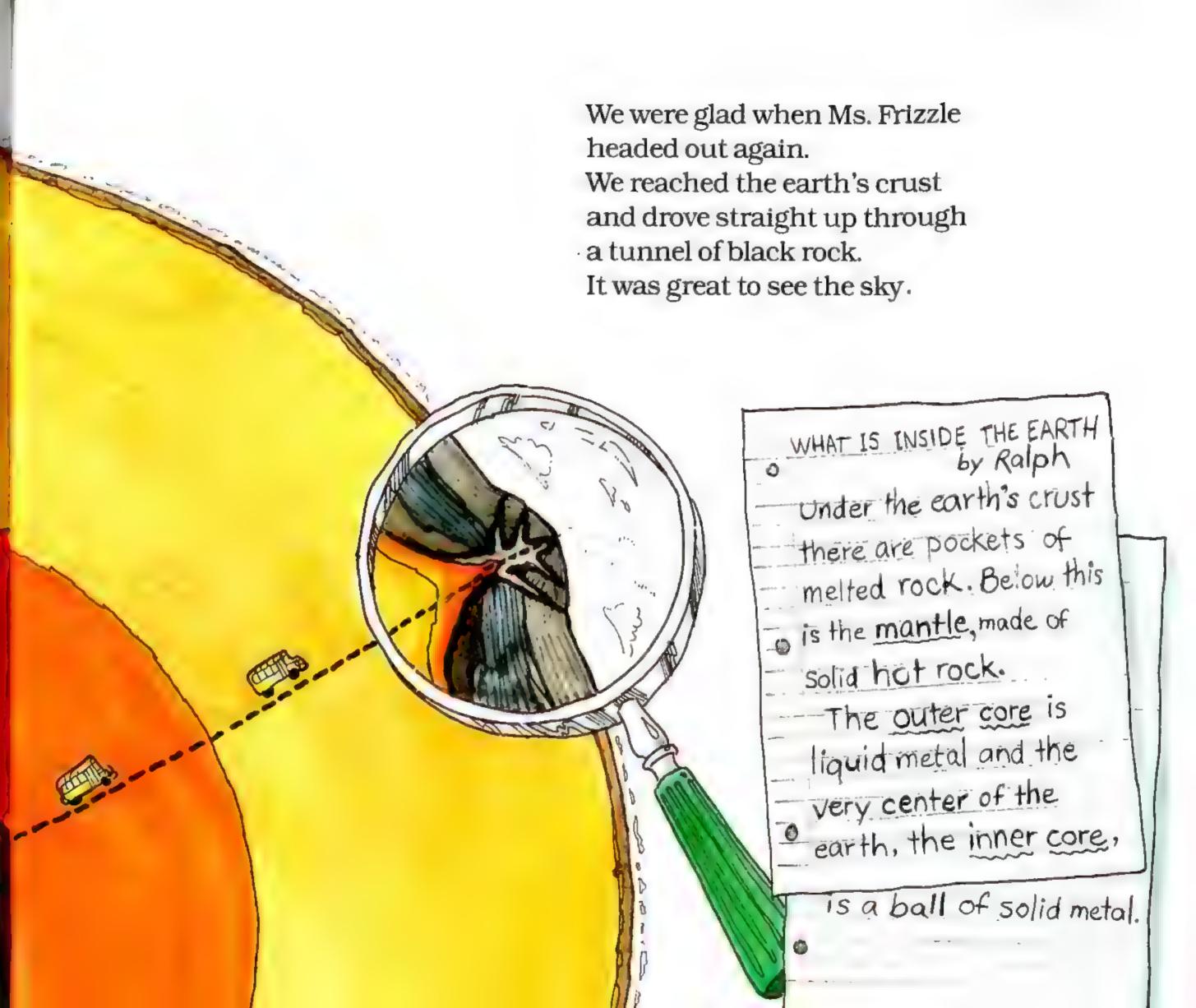


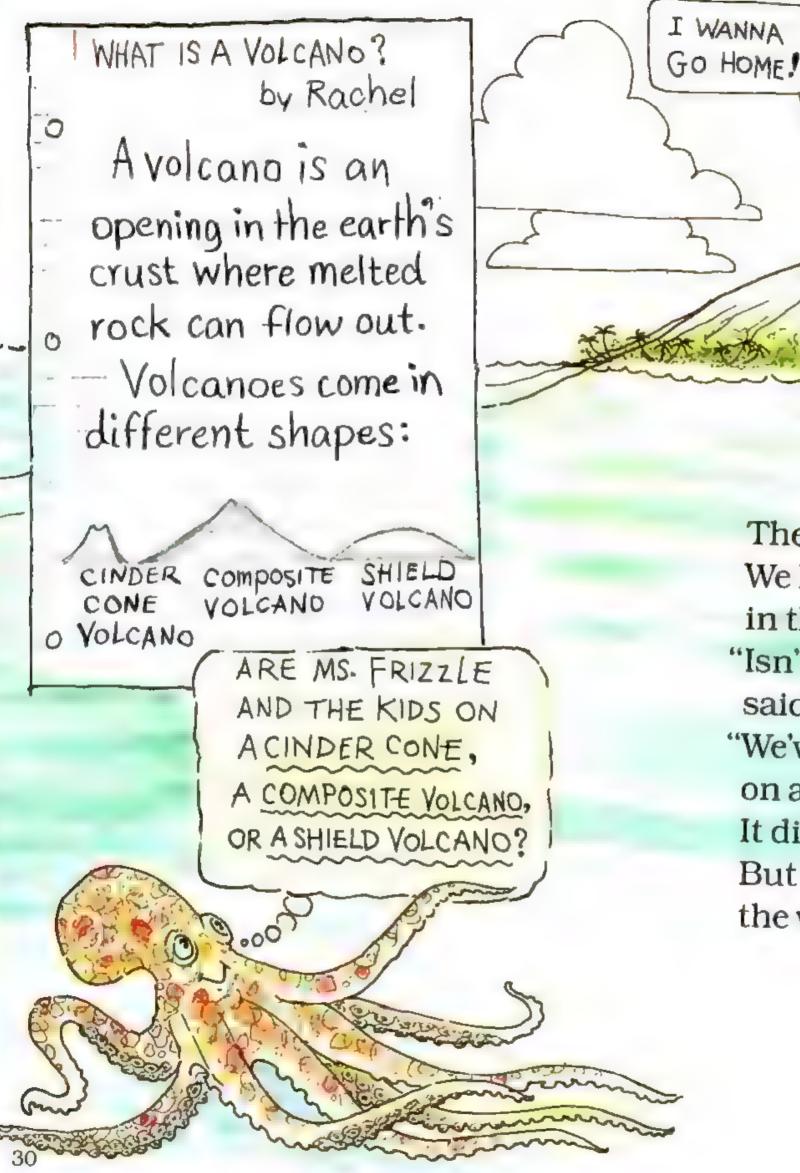






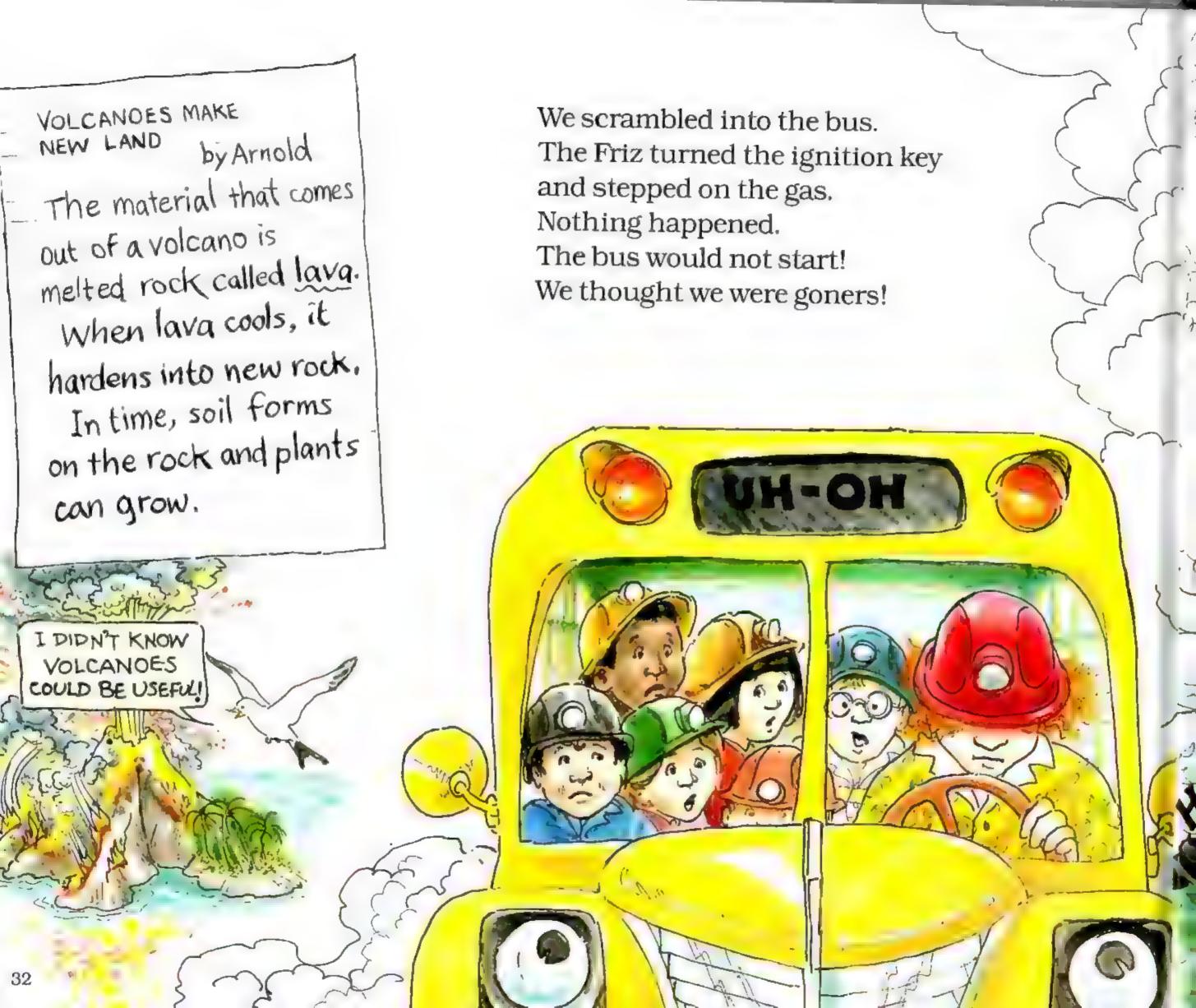




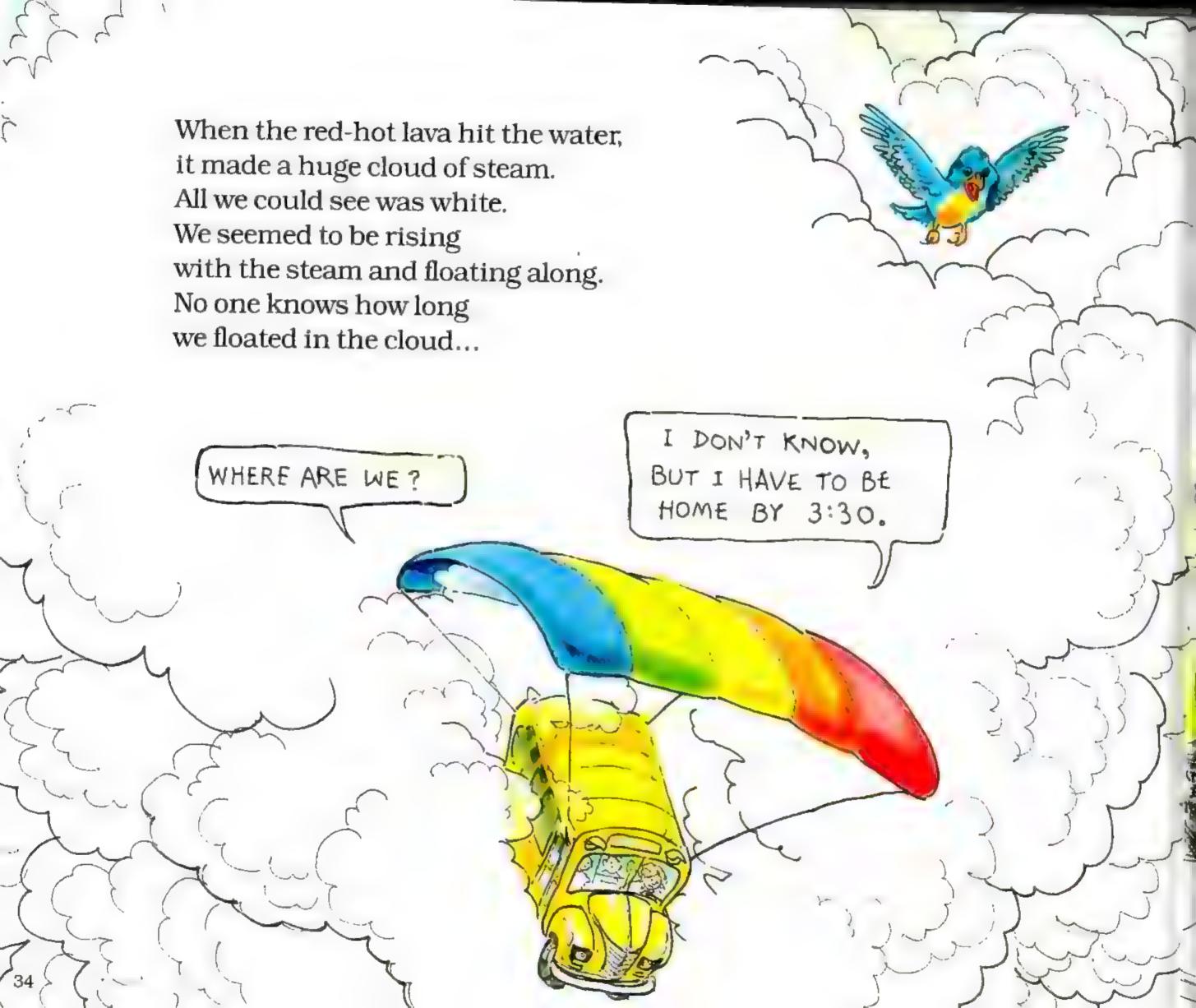


Then we looked around.
We had come out on an island in the middle of the ocean!
"Isn't this wonderful, class?" said Frizzie.
"We've driven right up on a volcanic island!"
It didn't look like much.
But if Ms. Frizzle was right, the whole island was one big volcano!

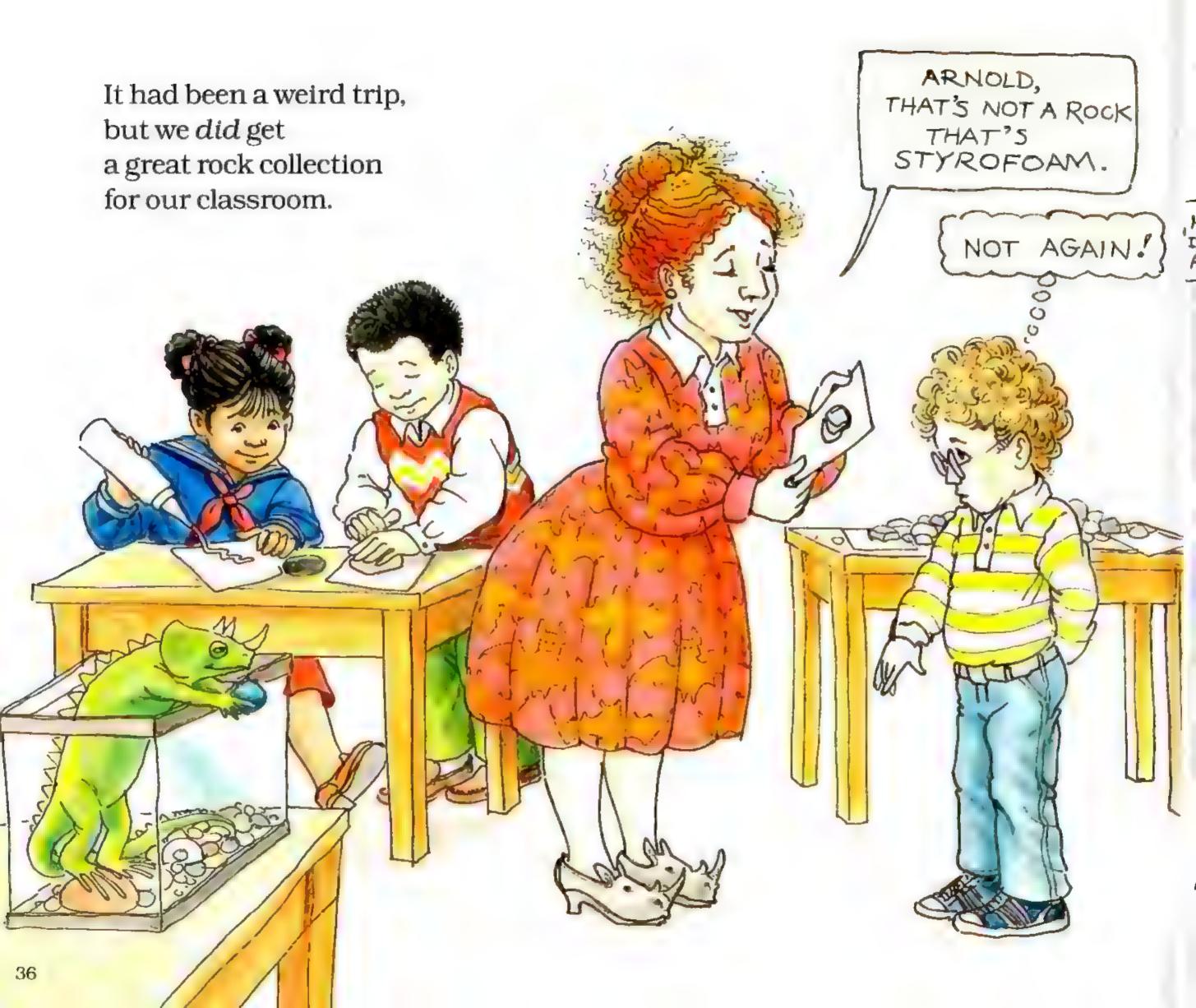












ROCK COLLECTION

by Ms. FRIZZLE'S CLASS

HEY I'M NOT A ROCK!

SHIRLEY'S ROCK LIMESTONE



TYPE: Sedimentary (formed from shells) USES: Buildings, chalk, cement, fertilizer

Amanda Jane's rock

MARBLE



TYPE: Metamorphic (formed from limestone) USES: Statues, monuments, buildings

Phoebe's rock SHALE



TYPE: Sedimentary (formed by mud) USES: Ground up and mixed with limestone for cement, brick

Wanda's rock

GRANITE



TYPE: Igneous

USES: Monuments, buildings, curbstones

JOHN'S rock

SLATE



TYPE: Metamorphic (formed from shale) USES: Roofing tile, flagstones, chalkboards

Michael's rock

SANDSTONE



TYPE: Sedimentary (formed by sand) USES: Buildings, grindstones

MOLLY'S rock

BASALT



TYPE: Igneous (Volcanic)

USES: Road Building

Rachel's rock

OBSIDIAN



TYPE: Igneous (volcanic)

USES: Decoration, Indian Arrowheads

Florrie's rock

PUMICE



TYPE: Igneous (Volcanic) USES: Ground-up in scouring powder

Phil's rock

QUARTZITE



TYPE: Metamorphic (formed from sand stone) USES: Milistones for grinding grain, road building



A WORD WITH THE AUTHOR AND THE ARTIST

The first reader of this book called to complain. He said the book was full of mistakes. We recorded the conversation to help you decide which things are true and which were put in to make the story more exciting.

READER: This book is full of mistakes!

AUTHOR: It is not!

ARTIST: Everything in this book is absolutely true and really happened.

READER: What about the beaver lodge on page 7?

AUTHOR: Oh, that. Well, I guess that would be too messy in a real classroom.

READER: And the beehive?

ARTIST: That, too. But everything else is fact.

READER: Oh, come *on!* You mean kids can use jackhammers (page 16), and a bus can change into a steam shove! (page 14) and a drill (page 23)?

AUTHOR: Well, er, now that you mention it, that is not really possible.

READER: And do you expect me to believe that a bus can go through the center of the earth (page 28)?

COLUMN TO THE PROPERTY

ARTIST: Yes....

AUTHOR: Maybe....

ARTIST: Well, actually, no. The bus couldn't do that, either.

AUTHOR: Even if a bus *could* drill its way through, the distance is so long that the trip would take months, even years.

READER: And what about the heat?

AUTHOR: Okay, okay! It's white-hot in the center of the earth. The bus would be burned up in a minute.

READER: Isn't it kind of ridiculous to say that air-conditioning would help?

AUTHOR: Gee, you're a tough cookie! Okay, you're right. Air-conditioning could not make any difference in that kind of heat.

READER: And the bus could not flow in lava and go up in a cloud of steam (pages 33-34)?

ARTIST: Give us a break! You're right again. That's not true, either.

READER: But you said everything was true!

AUTHOR: Everything else is. Honest!

READER: Everything else is true? There truly are sedimentary, metamorphic, and igneous rocks?

AUTHOR: Certainly!

READER: And lava really does harden into new rock?

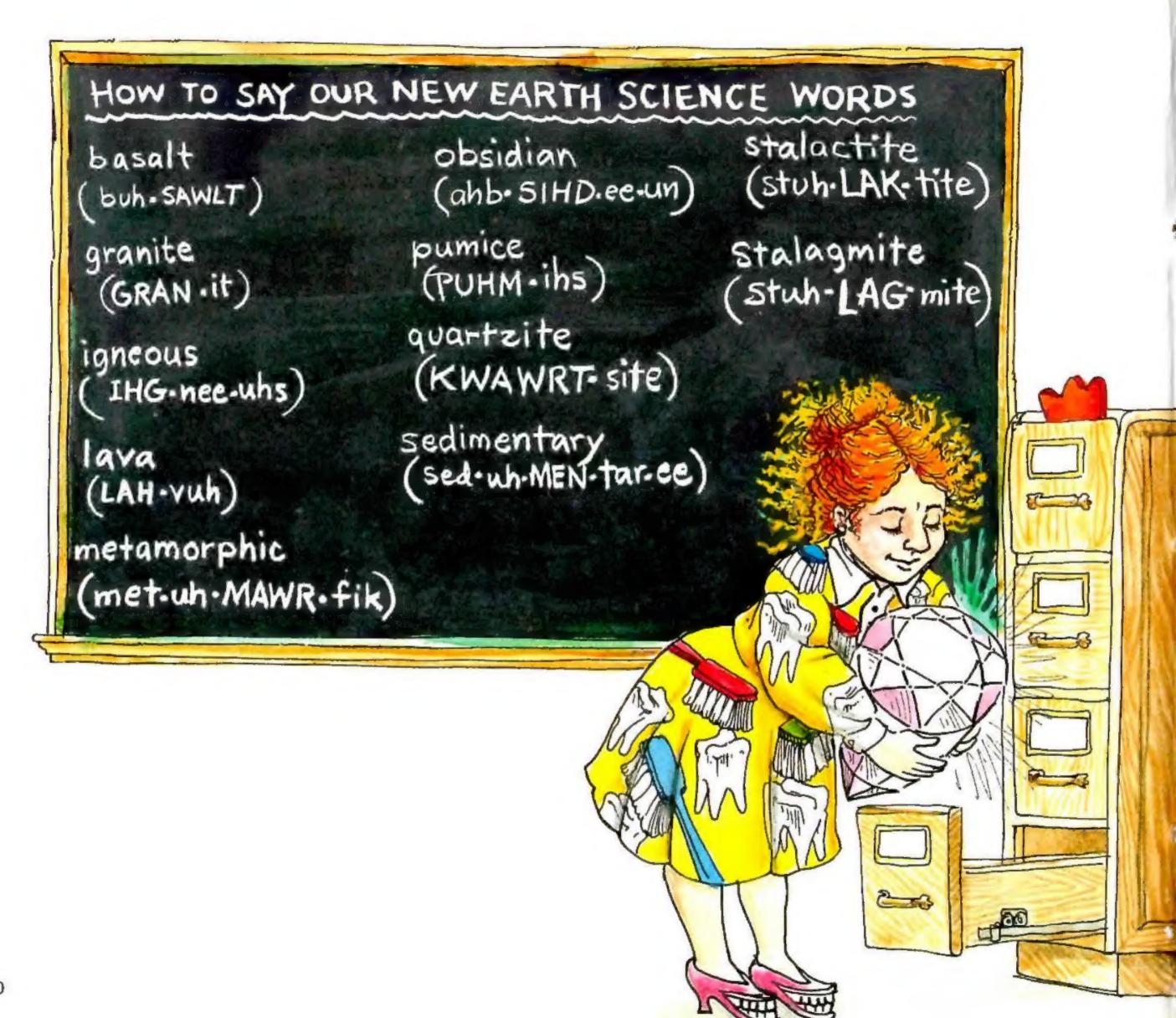
ARTIST: Oh, yes.

READER: And what about Ms. Frizzle's clothing?

AUTHOR: That is hard to believe, but it's true.

ARTIST: She really does dress that way!



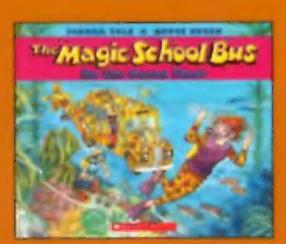




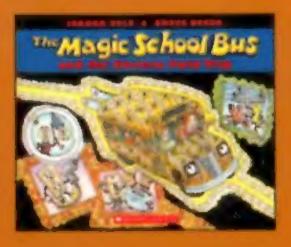
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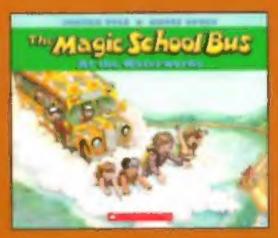


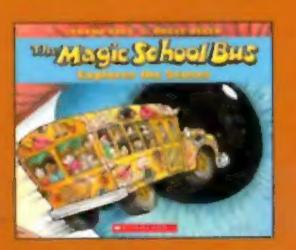


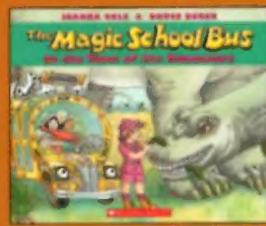


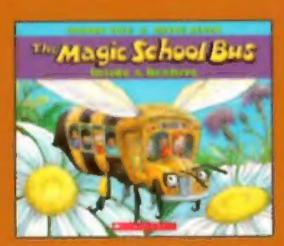
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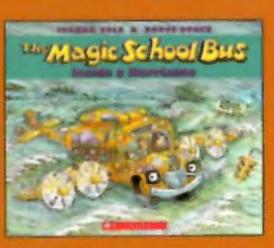














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